



NOTES:

1. FOR CONSTRUCTION OF STORM SEWERS 36" I.D. OR LESS AT DIRECTION CHANGES OR OFFSET WHERE DEPTH TO INVERT EXCEEDS 9'
2. PRECAST RISER SECTIONS TO MEET ASTM C-487
3. JOINTS BETWEEN PRECAST SECTIONS SHALL USE O-RING RUBBER GASKET CONFORMING TO ASTM C-443 EXCEPT AS NOTED.
4. POURED CONCRETE INVERT SHALL BE CONCRETE MIX 3Y43
5. FILL SPACE BETWEEN PRECAST KNOCK-OUT AND PIPE WALL WITH MORTAR AND CONCRETE MASONRY.
6. THIS PORTION OF MANHOLE MAY BE CONSTRUCTED OF 8" SOLID CONCRETE MANHOLE BLOCK (SEE SPECIFICATIONS). ALL JOINTS SHALL BE COMPLETELY FILLED WITH MORTAR 3/8" THICK.
7. SAW CUT PIPES FLUSH WITH INSIDE WALL OF MANHOLE.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

*Joseph J. Mueller*  
JOSEPH J. MUELLER  
Date 9-2-02 Lic. No. 13942

APPROVED \_\_\_\_\_

*[Signature]*  
CITY ENGINEER

CITY OF ST. PAUL  
DEPARTMENT OF PUBLIC WORKS

MANHOLE, TYPE III & III-S

Date of  
Revision

JULY  
2002

Standard  
Plate  
No.

2103D